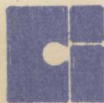




COMPUTER
IMAGE
CORPORATION

CAESAR
MONITOR

ALTEMUS



COMPUTER
IMAGE
CORPORATION

CAESAR
MONITOR

ALTEMUS

SUNDAY

OCTOBER						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Mon. **3**
CRT Unit

OCT. 1971

Currents

+48 0.25 A

~~48~~

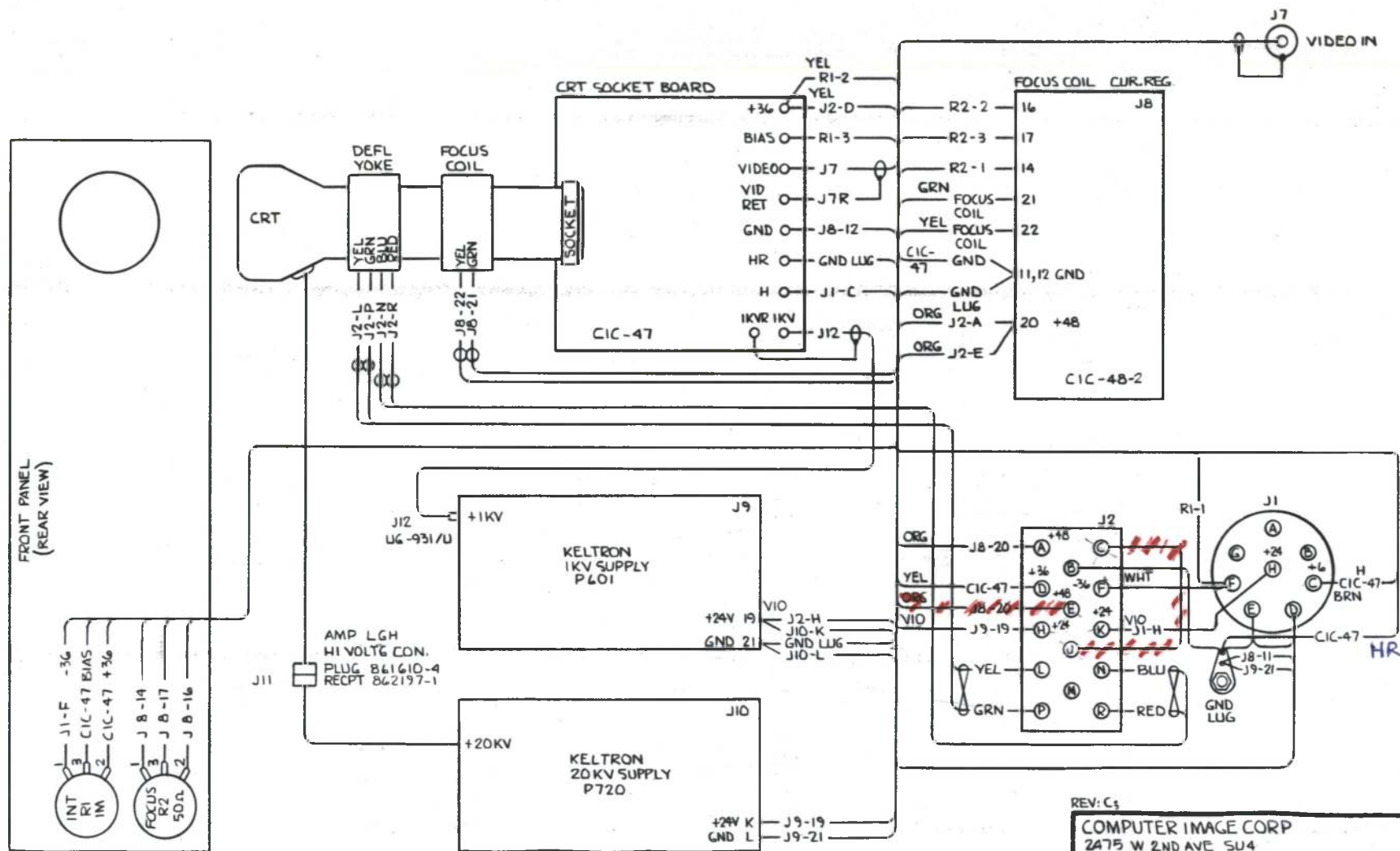
+36 .08

-36 .035

+15 .015

-15 .02

6.3 .6



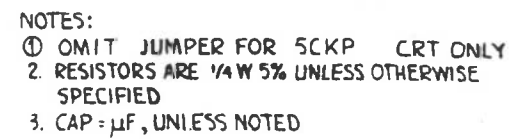
REV: C3

COMPUTER IMAGE CORP
2475 W 2ND AVE SU4
DENVER, CO 80223

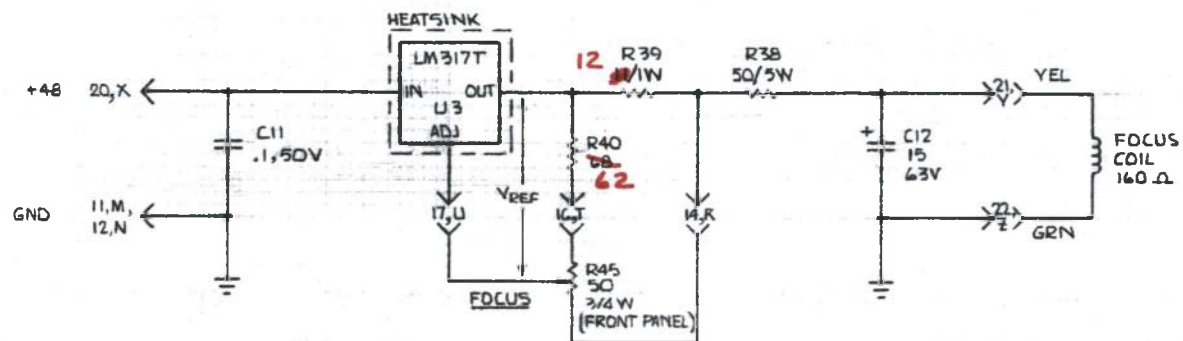
SCALE	REVISIONS	BY	DATE
NONE			
DATE	1-20-84		
DRN	EVL		
APVD			

TITLE MONITOR DRAWER
WIRING DIAGRAM

NO
SMW - 202C



		REV: J1
DWN: 4/20/83	EVL	COMPUTER IMAGE CORP
		CRT SOCKET PCB
		SCAN CONVERTER - UPRIGHT
		CIC-47



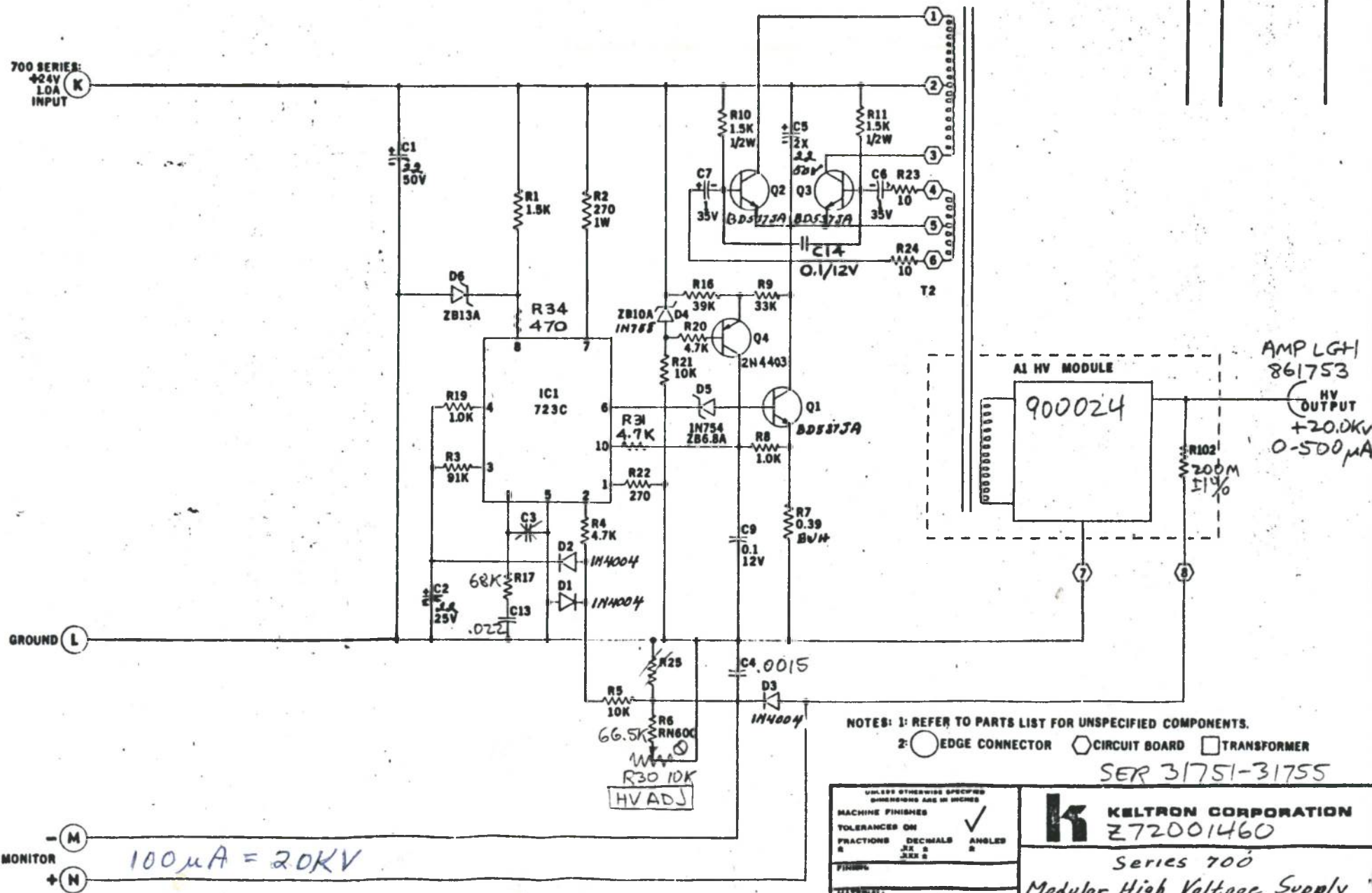
164 Ω
187ma

REV:		COMPUTER IMAGE CORP
DWN: 2/20/84	EVL	SH 1 OF 1
UNLESS NOTED		FOCUS REGULATOR
CAP	μ F	SCANNING CRT
RES	Ω , 1/4W	CAESAR
		CIC-48-2

LTR	REVISION	DATE
7740	H	5-17-80

7740
5-17-80

0 HV, 420
Q1-3 From
TIP418T
To: BD537JA



NOTES: 1: REFER TO PARTS LIST FOR UNSPECIFIED COMPONENTS.

2: ○ EDGE CONNECTOR □ CIRCUIT BOARD ▢ TRANSFORMER

SER 31751-31755

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
MACHINE FINISHED	✓	
TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±	±
FINISH		
MATERIAL		

K	KELTRON CORPORATION	
	Z72001460	
Series 700		
Modular High Voltage Supply		
DATE 7/3/80	DATE 2/11/83	DATE
APPD	SCALE	SCALE
DRAWING NUMBER		REV
C1193		H

KELTRON CORPORATION
HIGH VOLTAGE POWER SUPPLY
APPLICATION INFORMATION
MODEL Z7200/460
SERIAL 31751-31755

INPUT POWER

Apply +24 VDC to the printed circuit board finger K, and 24v RETURN to finger L. Finger L is chassis ground.

The maximum input current is 1.1 A and an external fuse should be provided. The permissible input voltage range is +21 to +27 at DC Hz. DC input power need not be regulated and may contain up to 10% peak-to-peak voltage ripple as long as the instantaneous input voltage does not leave the permissible input voltage range.

HIGH VOLTAGE OUTPUT

The +20 KV high voltage output is taken from the heavily insulated lead coming from the side of the module. It is usually fitted with a CRT connector, but may be adapted to another specific HV connector at customer option. Specifications are written for a high voltage load capacitance of 500 pF, which is usually the capacitance of the CRT load.

LOW VOLTAGE OUTPUTS (OPTIONAL)

OUTPUT#	FINGER	OUTPUT VOLTAGE		RATED LOAD		RIPPLE	MAXIMUM REGULATION		
		MIN	MAX	MIN	MAX	P-PMAX	LINE	LOAD	INTERACTION*
<u>NONE</u>									

*Variation as the high voltage output is switched from no-load to full-load

✓ HIGH VOLTAGE MONITOR (OPTIONAL)

If this feature is provided, a diode will be found on the printed circuit board at D3. This diode carries the high voltage sensing current at a voltage less than 10 volts from chassis ground. A DC microammeter connected between fingers N (+) and M (-) will divert this current completely for measurement by the meter which will then indicate the output voltage. The effective voltage multiplier resistance is 200 MW, $\pm 1\%$ which will pass 100 μ A at rated output. The leads connecting this meter may induce some power frequency ripple into the outputs of this supply, so for best performance these leads should be short and well shielded.

REDUCED OUTPUT VOLTAGE

If less output voltage is required, R6, located near finger M, may be replaced with a value $R = \frac{1360}{V}$, where R is in K Ω , and V is the desired output in KV, with an accuracy of $\pm 6\%$. If desired, R6 may be removed completely and a variable resistance substituted across fingers L and M. However, this resistance MAY NOT BE LESS THAN THE ORIGINAL VALUE OF R6 since this would program an excessive output voltage. The best circuit should include the original R6 in series with the variable resistance. In this way, the output voltage may be reduced to as little as 30% of the rated output voltage with an output current up to 80% of the original rating.

OVERLOAD PROTECTION

A current limiter circuit protects the supply from sustained overloads and arcing on any output. It allows the output voltage to collapse to zero under overload conditions and restore automatically when the overload is removed. All output voltages reduce proportionally under an overload on any output.

PERFORMANCE

The Prototype Evaluation Report for this supply lists all of the detailed performance specifications to which every unit is tested after a 100-hour run. Performance to these same specifications is warranted for ~~three~~^{ONE} years after the date of shipment from Keltron. Individual certified final test reports are available as an extra cost option after the prototype unit.

WARRANTY

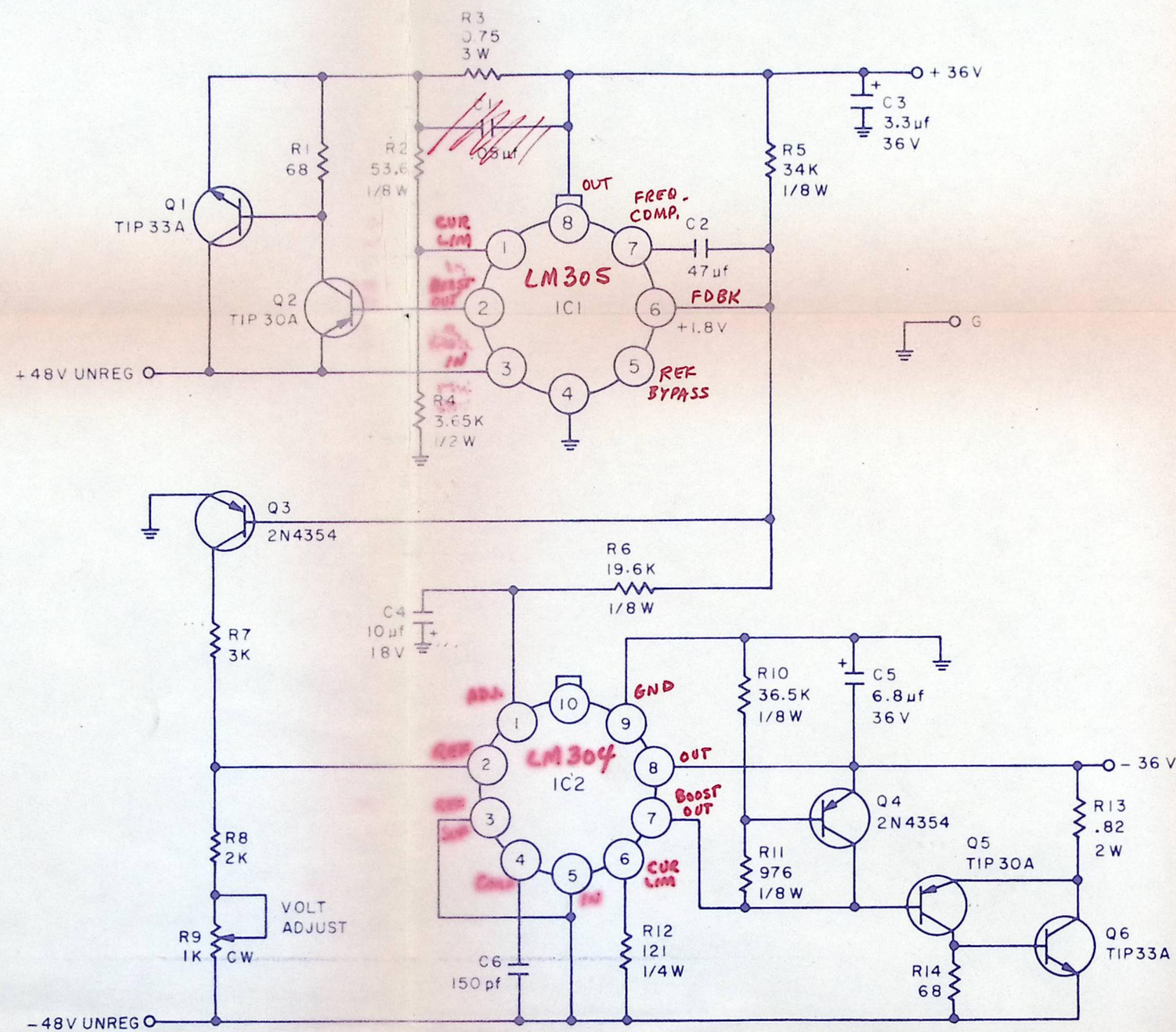
Keltron provides a ~~three~~^{ONE}-year warranty on workmanship and material for this supply. Keltron will provide all material and labor necessary to return a supply to performance within original specification during this period. The customer will be responsible only for shipping costs to and from Keltron. It is Keltron's policy to repair high voltage warranty units on a two-week cycle or better.

NON-WARRANTY REPAIRS

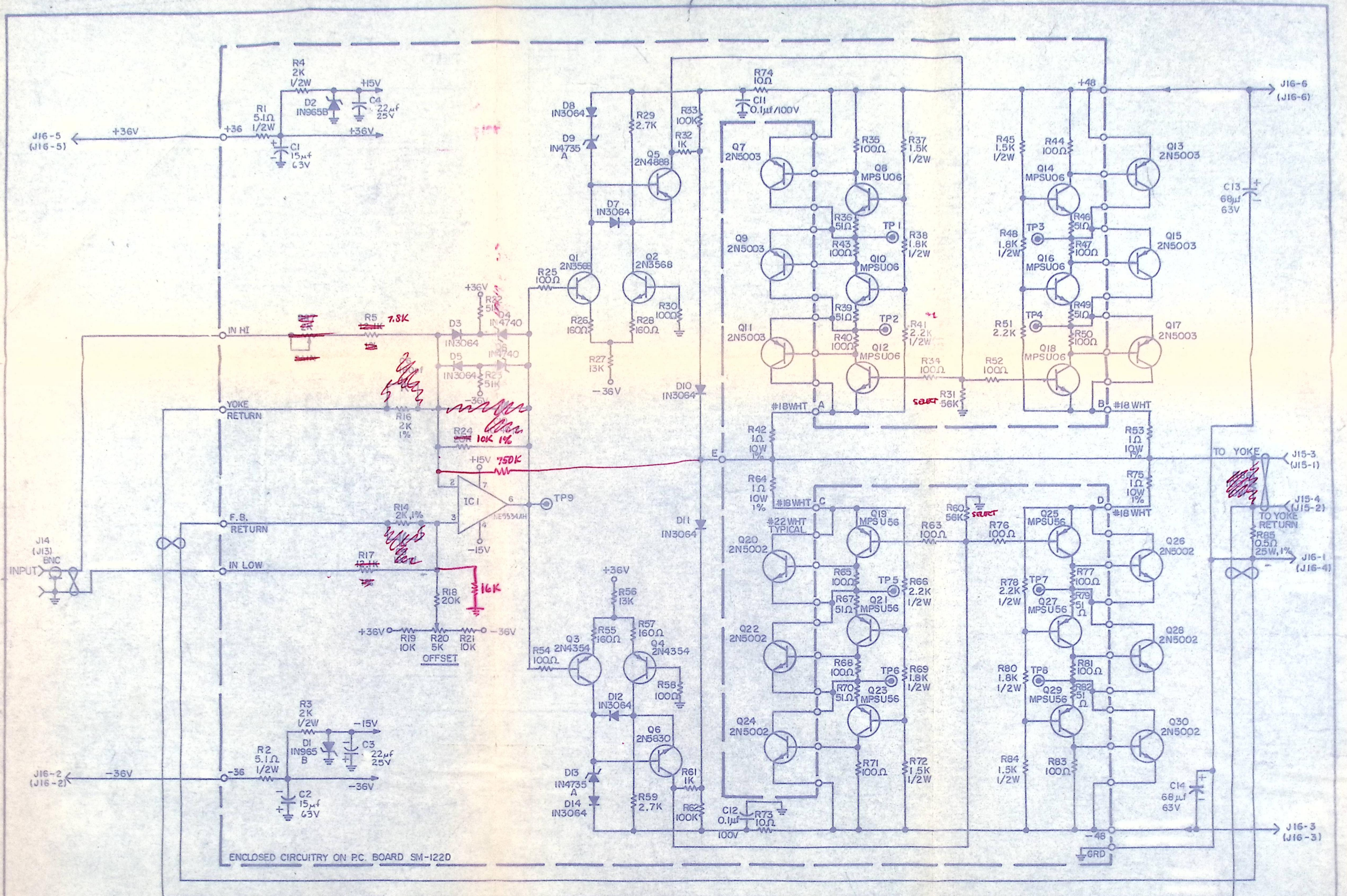
Power supplies damaged or beyond the ~~three~~^{ONE}-year warranty will be evaluated and repairs quoted on a one-week cycle. A minimum repair charge will be made of \$20 or 5% of the new value of the supply, whichever is greater.

RETURNS

When returning a defective high voltage supply, please state explicitly the observed fault. This will not only facilitate repair and return but will probably also reduce the repair charge if the unit is out of warranty. Pack well for shipment, in the original packing if possible. If the packing received at Keltron is deemed inadequate, a small charge will be made for packing for the return shipment.



		COMPUTER IMAGE CORPORATION		2162 SOUTH JASON STREET, DENVER, COLORADO 80223	
SCALE		REVISION		BY	DATE
DATE					
DR'W		CK'D			
AP'VD					
TITLE ± 36 VOLT REGULATOR CAESAR				NO. SM-111	



HEAT SINK
ASTRODYNE -2404-4

NOTE:
RESISTORS ARE 1/4W, UNLESS OTHERWISE SPECIFIED.

TWO COMPLETE CIRCUITS REQUIRED FOR ONE X AND Y DEFLECTION UNIT
PIN NUMBERS IN PARENTHESIS ARE FOR MON Y CHANNEL.
OTHER PIN NUMBERS ARE FOR MON X CHANNEL

REV: A, B, C, D

COMPUTER IMAGE CORPORATION		2475 W. 2ND. AVE. DENVER, COLORADO 80223	
SCALE NONE	REVISION	BY	DATE
DATE 9-2-71			12-16-73
DR. E.R.	PER WCA MARKED PRINT	E.R.	4-2882
TITLE MONITOR X OR Y DEFLECTION AMPLIFIER SCHEMATIC		NO. 31 OF 1 SM-122	